PATENT APPLICATION TRANSMITTAL LETTER

(Large Entity)

Docket No. S-94,529

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Fransmitted herewith for filing under 35 U.S.C. 111 and	d 37 C.F.R. 1.53 is the patent application of:
---	--

Christopher H. Sale, et al.

For:	METHOD AND A	APPARATUS FO	R REMOTE DE	LIVERY AN	D MAN	PULATIO	ON OF A MINLA	ATURE TOOL
ADJ	ADJACENT A WORK PIECE IN A RESTRICTED SPACE							
Enci	Enclosed are:							
	Certificate of Maili	ng with Express	Mail Mailing Lab	el No.				
X	Eight (8)	sheets of dra	wings.					
	A certified copy of	а		application.				
\mathbf{X}	Declaration	Signed.	Unsigned.					
X	Power of Attorney							
	Information Disclo	sure Statement						
	Preliminary Amend	dment						
X	Other: Request fo	r NonPublication	l .					
hai M								
			CLAIMS AS	S FILED				1 12 1 1 1 1 1
	For	#Filed	#Allowed	#Extra		Rate		Fee
Tota	ıl Claims	36	- 20 =	16	x	\$18.00		\$288.00
	p. Claims	3	- 3 =	0	×	\$80.00		\$0.00
Fi	p. Claims		- 3 -			400.00	<u> </u>	——————————————————————————————————————
14 1	tiple Dependent C	laims (check if	applicable))				\$0.00
							BASIC FEE	\$740.00
						TOTAL	FILING FEE	\$1,028.00
	A check in the amo	ount of	to co	ver the filing	fee is e	nclosed	 	
	The Commissioner			•			. 01-2752	
	as described below	•	_		poon / n		. 012702	
	■ Charge the	•	• • •	filing fee.				
	☑ Credit any		,	J				
	•	y additional filing	g fees required u	nder 37 C.F.	R. 1.16	and 1.17.		,
		e issue fee set in	•				Allowance.	
	-	o 37 C.F.R. 1.31			,		,	
	•				1	0	1 1	
Date	d: March 6, 2002			/	SOL	Une	4001	
	- Manual of House			-1.	\mathcal{M}_{Λ}	vove	Signature	

Betty A. Winchester

Authorized Signature for Deposit Account 01-2752

U. S. Department of Energy

202-586-2810 (FAX 202-586-7127)

cc: HQ/VBC

u C

đ

REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor		Christopher H. Sale, et al.		
Title	Method and a manipulation	apparatus for remote delivery and of a miniature tool adjacent a work		
Atty Docket Number		S-94,529		

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

March 6, 2002

Date

Virginia B. Caress

Signature

Virginia B. Caress, Reg. No. 34062

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing.**

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

For the Convenience of the Examiner

Key to Figures

5	[Line 5-5 in Fig 4 refers to Fig 5]
10	Closure block
12	Reactor pot
14	Lid
16	Closure seal
18	Small opening
20	Tool carrier
22	Carriage assembly
24	Accumulator assembly
26	Remote hydraulic actuator assembly
27	Secondary Operating Actuator
28	Arcuate frame
29	Upper arcuate slot
30	Delivery chain
31	Lower arcuate slot
32	Stabilizers
33	Side wall
Р	Probe
34	Tracks
35	Cam

DOE Docket S-94,529

	Key to	<u>Figures</u>		
	36	Track		
The little street stree	37	Cam		
	38	Arcuate recess		
	40	Hydraulic cylinder (not shown. Next to and identical to 42)		
	42	Hydraulic cylinder		
	44	Double acting piston		
	45	Double acting piston		
	46	Hydraulic line for cylinders 40 and 86		
	47	Carrriage assembly inlet/outlet port for hydraulic line 46		
144 144 144 144	48	Hydraulic line for cylinders 40 and 86		
	49	Carriage assembly inlet/outlet port for hydraulic line 48		
The seas the state of the state	50	Hydraulic line for cylinders 42 and 88		
	51	Carriage assembly inlet/outlet port for hydraulic line 50		
	52	Hydraulic line for cylinders 42 and 88		
	53	Carriage assembly inlet/outlet port for hydraulic line 52		
	54	Holes		
	56	Conventional probe connections		
	58	Conventional probe connections		
	Υ	Direction of movement of probe P		
	Z	Direction of pivot in figure 7		
	60	Top portion of track 34		

Key to Figures

62	Top portion of track 36
70	Actuator body
72	Guide plate
74	Guide pin
76	Guide pin
78	Skew adjuster
80	Lead screw
82	Double acting piston
84	Double acting piston
86	Internal cylinder
88	Internal cylinder
90	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 46
92	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 48
94	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 50
96	Remote hydraulic actuator assembly inlet/outlet port for hydraulic line 52
MA	Manipulator apparatus
110	Remote operating system
112	Base plate
114	Handle
116	Handle
120	Chambered Manifold block

Key to Figures

122	Pressure gage
124	Three way flow control valve for hydraulic line 46
126	Three way flow control valve for hydraulic line 48
128	Three way flow control valve for hydraulic line 52
130	Three way flow control valve for hydraulic line 50
132	Three way flow control valve for hydraulic line 48
134	Three way flow control valve for hydraulic line 52
136	Fluid fill valve
138	Air control valve
140	Pulsation damper
142	Accumulator assembly inlet/outlet port for three way control valve 124
144	Accumulator assembly inlet/outlet port for three way control valve 126
146	Accumulator assembly inlet/outlet port for three way control valve 128
148	Accumulator assembly inlet/outlet port for three way control valve 130
150	Accumulator assembly inlet/outlet port for three way control valve 132
152	Accumulator assembly inlet/outlet port for three way control valve 134
154	Accumulator assembly inlet/outlet port for fluid fill valve 136
156	Accumulator assembly inlet/outlet port for air control valve 138